

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P520724

Luminaire Tested: **8WSLA-200-L830-UPL15-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P520724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-200-L830-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

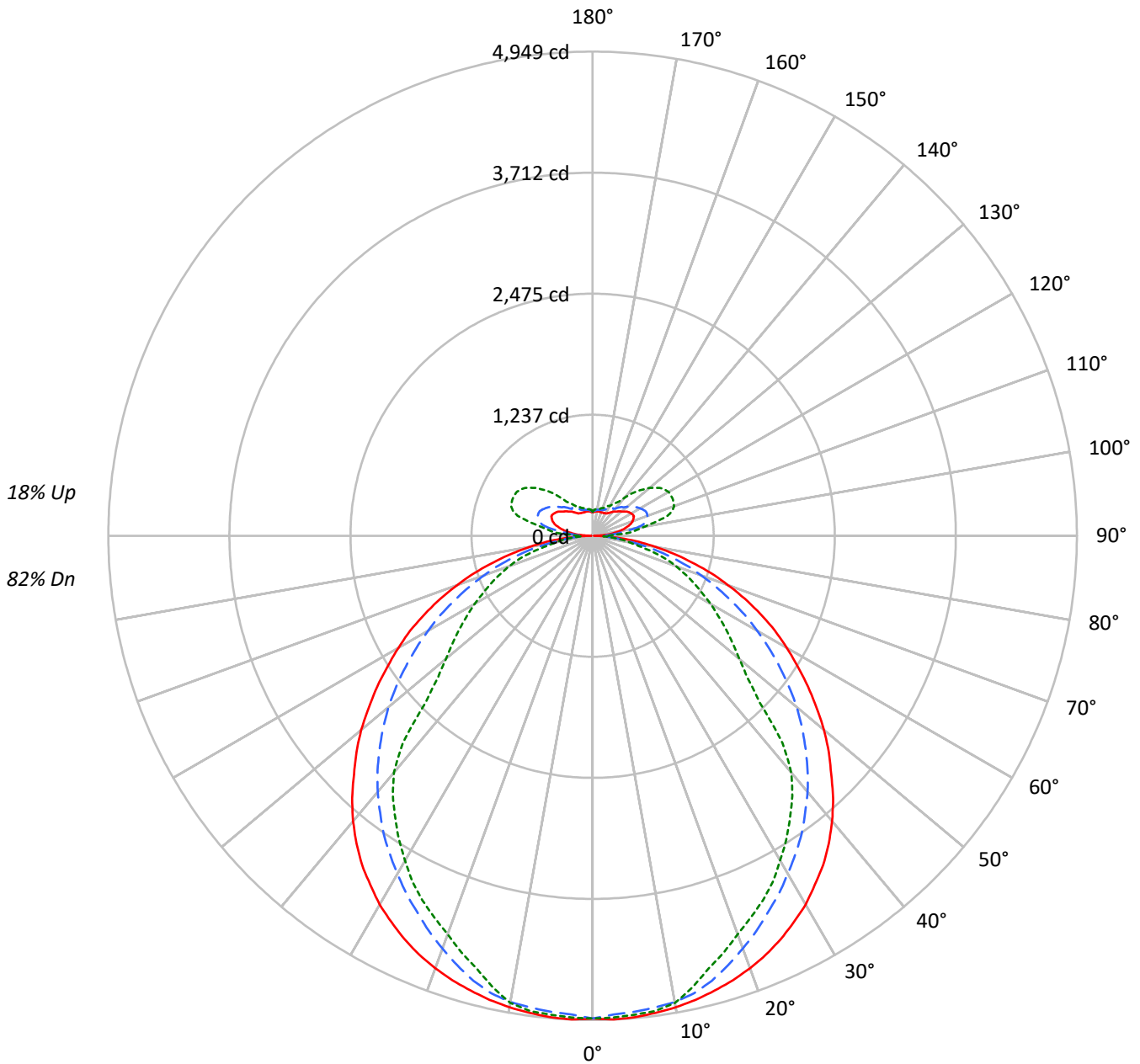
Lumens per Lamp: N/A
Luminaire Lumens: 15979.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13277	13277	13277
5°	13341	13192	13274
10°	13372	13222	13249
15°	13411	13118	12756
20°	13470	12854	12409
25°	13506	12599	12213
30°	13527	12392	11910
35°	13496	12230	11556
40°	13377	12006	11092
45°	13121	11711	9198
50°	12925	11396	8191
55°	12607	10940	7794
60°	12334	10449	7487
65°	12044	9877	7265
70°	11575	9252	7126
75°	10925	8480	6555
80°	10003	7135	5816
85°	8960	6181	5869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	2.9
10°-20°	1328.3	8.3
20°-30°	1982.3	12.4
30°-40°	2362.0	14.8
40°-50°	2349.4	14.7
50°-60°	2013.6	12.6
60°-70°	1516.5	9.5
70°-80°	878.3	5.5
80°-90°	264.0	1.7
90°-100°	283.4	1.8
100°-110°	581.9	3.6
110°-120°	615.3	3.9
120°-130°	513.3	3.2
130°-140°	358.6	2.2
140°-150°	223.2	1.4
150°-160°	138.3	0.9
160°-170°	77.9	0.5
170°-180°	25.1	0.2
0°-30°	3778.3	23.6
0°-40°	6140.2	38.4
0°-60°	10503.2	65.7
0°-90°	13161.9	82.4
90°-120°	1480.6	9.3
90°-150°	2575.7	16.1
90°-180°	2817.0	17.6
0°-180°	15979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4934	4934	4934	4934	4934	
5°	4939	4924	4884	4919	4914	470
15°	4814	4809	4709	4629	4579	1360
25°	4549	4484	4243	4138	4113	2097
35°	4108	3998	3723	3578	3518	2566
45°	3448	3363	3077	2772	2417	2665
55°	2687	2647	2332	1852	1661	2402
65°	1892	1846	1551	1206	1141	1870
75°	1051	1016	816	650	630	1113
85°	290	255	200	190	190	310
90°	15	70	120	150	160	29
95°	160	215	245	360	390	153
105°	375	390	560	751	796	389
115°	465	395	596	821	901	453
125°	430	380	515	756	851	382
135°	350	380	415	560	646	273
145°	285	330	360	385	410	181
155°	260	275	295	320	325	120
165°	255	265	275	285	285	72
175°	250	255	260	265	270	24
180°	245	245	245	245	245	



TEST NUMBER: P520724

CATALOG NUMBER: 8WSLA-200-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4933.9	4933.9	4933.9	4933.9	4933.9
2.5°	4948.9	4938.9	4898.8	4938.9	4928.9
5°	4938.9	4923.9	4883.8	4918.9	4913.9
7.5°	4918.9	4908.9	4863.8	4903.8	4898.8
10°	4893.8	4878.8	4838.8	4868.8	4848.8
12.5°	4858.8	4848.8	4788.8	4763.7	4723.7
15°	4813.8	4808.8	4708.7	4628.6	4578.6
17.5°	4763.7	4743.7	4603.6	4508.5	4463.5
20°	4703.7	4673.7	4488.5	4378.4	4333.4
22.5°	4633.6	4588.6	4373.4	4268.3	4223.3
25°	4548.6	4483.5	4243.3	4138.2	4113.2
27.5°	4453.5	4378.4	4123.2	4018.2	3988.1
30°	4353.4	4258.3	3988.1	3888.1	3833.0
32.5°	4228.3	4138.2	3858.0	3742.9	3682.9
35°	4108.2	3998.1	3722.9	3577.8	3517.8
37.5°	3963.1	3853.0	3567.8	3422.7	3352.6
40°	3808.0	3697.9	3417.7	3247.5	3157.5
42.5°	3637.9	3537.8	3252.6	3047.4	2872.3
45°	3447.7	3362.6	3077.4	2772.2	2416.9
47.5°	3272.6	3192.5	2902.3	2507.0	2141.7
50°	3087.4	3012.4	2722.1	2256.8	1956.5
52.5°	2882.3	2827.2	2527.0	2041.6	1801.4
55°	2687.1	2647.1	2331.8	1851.5	1661.3
57.5°	2481.9	2441.9	2136.7	1671.3	1521.2
60°	2291.8	2251.8	1941.5	1511.2	1391.1
62.5°	2101.6	2046.6	1751.4	1356.1	1256.0
65°	1891.5	1846.4	1551.2	1205.9	1140.9
67.5°	1681.3	1641.3	1366.1	1065.8	1020.8
70°	1471.2	1436.1	1175.9	930.7	905.7
72.5°	1266.0	1221.0	1005.8	795.6	785.6
75°	1050.8	1015.8	815.6	650.5	630.5
77.5°	845.7	815.6	640.5	495.4	480.4
80°	645.5	615.5	460.4	360.3	375.3
82.5°	475.4	435.3	310.2	280.2	295.2
85°	290.2	255.2	200.2	190.1	190.1
87.5°	100.1	95.1	90.1	105.1	110.1
90°	15.0	70.1	120.1	150.1	160.1
92.5°	85.1	125.1	165.1	195.2	205.2
95°	160.1	215.2	245.2	360.3	390.3
97.5°	220.2	285.2	320.3	425.3	455.4
100°	280.2	340.3	450.4	505.4	540.4
102.5°	330.3	375.3	530.4	640.5	660.5
105°	375.3	390.3	560.4	750.6	795.6



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CATALOG NUMBER: 8WSLA-200-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	450.4	400.3	600.5	815.6	895.7
115°	465.4	395.3	595.5	820.6	900.7
117.5°	465.4	395.3	580.5	820.6	900.7
120°	455.4	400.3	560.4	810.6	895.7
122.5°	445.3	390.3	540.4	790.6	875.7
125°	430.3	380.3	515.4	755.6	850.7
127.5°	405.3	390.3	490.4	710.6	805.6
130°	385.3	395.3	460.4	665.5	760.6
132.5°	370.3	385.3	430.3	615.5	700.5
135°	350.3	380.3	415.3	560.4	645.5
137.5°	335.3	365.3	390.3	510.4	580.5
140°	320.3	355.3	365.3	445.3	505.4
142.5°	300.2	340.3	345.3	415.3	440.3
145°	285.2	330.3	360.3	385.3	410.3
147.5°	270.2	310.2	350.3	355.3	380.3
150°	265.2	290.2	335.3	340.3	350.3
152.5°	260.2	280.2	310.2	340.3	345.3
155°	260.2	275.2	295.2	320.3	325.3
157.5°	255.2	275.2	285.2	305.2	310.2
160°	255.2	270.2	280.2	295.2	300.2
162.5°	255.2	270.2	275.2	290.2	295.2
165°	255.2	265.2	275.2	285.2	285.2
167.5°	255.2	265.2	270.2	280.2	280.2
170°	255.2	260.2	270.2	275.2	275.2
172.5°	250.2	260.2	265.2	275.2	275.2
175°	250.2	255.2	260.2	265.2	270.2
177.5°	240.2	255.2	260.2	265.2	260.2
180°	245.2	245.2	245.2	245.2	245.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	410.3	395.3	580.5	790.6	855.7
110°	435.3	400.3	595.5	805.6	885.7



(END OF REPORT)